AREA .. SUM(I,A(I)) =E= 0;

VELOCITY(VINDX) .. VEL(VINDX) =E= VSCALE *

5 SUM(I$(ORD(I) LE ORD(VINDX)), A(I));

POSITION .. SUM(I,VEL(I)) =E= FINALPOS * SCALEFACT;

VLIMITP(I) .. SUM(VINDX$(ORD(VINDX) LE ORD(I)),A(I-

(ORD(VINDX)+1))*(VOLTS(VINDX)+KBACK*VSCALE))

=L= VOLTLIM;

10 VLIMITN(I) .. SUM(VINDX$(ORD(VINDX) LE ORD(I)), A(I-

(ORD(VINDX)+1))*(VOLTS(VINDX)+KBACK*VSCALE))

=G= -VOLTLIM

% A(I) are the current commands at time T(I) spaced equally at time DT.

15 % VOLTS(VINDX) is a table of voltages representing the unit pulse

response to

% a unit output in current command. VOLTLIM is the voltage limit at

saturation.